Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	24	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "709"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR ,	ON	2005/05/13 07:33
S1	24	(queue\$3 near5 request) and (object same playback) and client	USPAT	OR	ON	2002/11/22 15:23
S2	8	(queue\$3 near5 request) and (object same playback) and client and (digital near3 video)	USPAT	OR .	ON	2002/11/22 15:30
S3	41	(receiv\$3 with request) and (queu\$4) and (creat\$3 with object) and (simultaneous\$2 same playback)	USPAT	OR	ON	2002/11/22 15:32
S4	15	(receiv\$3 with request) and (queu\$4) and (creat\$3 with object) and (simultaneous\$2 same playback) and dvd	USPAT	OR	ON	2002/11/22 15:34
S5	28	(receiv\$3 with request) and (queu\$4) and (creat\$3 with object) and (simultaneous\$2 same playback) and (digital adj3 video)	USPAT	OR	ON	2002/11/22 15:38
S6	41	(receiv\$3 with request) and (queu\$4) and (creat\$3 with object) and (simultaneous\$2 same playback)	USPAT	OR	ON	2002/11/22 15:43
S7	0	(trigger\$3 with playback) and (client same clock)	USPAT	OR	ON	2002/11/22 15:43
S8	25	(simultaneous\$2 same playback) and (client same clock)	USPAT	OR	ON	2002/11/22 16:23
S9	1	"5675511".PN.	USPAT	OR	OFF	2002/11/22 16:15
S10	1	"5867799".PN.	USPAT	OR	OFF	2002/11/22 16:15
S11	3	(simultaneous\$2 adj2 playback) and (client same clock)	USPAT	OR	ON	2002/11/22 16:37
S12	· 36	(simultaneous\$2 adj playback) and (activat\$3 with signal)	USPAT	OR	ON	2002/11/22 16:44
S13	6	(simultaneous\$2 adj playback) and (activat\$3 with clock)	USPAT	OR	ON	2002/11/22 16:51
S14	0	(multi\$media with distribut\$3) and (play\$back) and (simultaneous\$2 with client) and (activiat\$3 with signal)	USPAT	OR	ON	2002/11/22 16:53
S15	0	(play\$back) and (simultaneous\$2 with client) and (activiat\$3 with signal)	USPAT	OR .	ON	2002/11/22 16:58

S16	0	((simultaneous\$2 adj3 playback)with client) and (activiat\$3 with signal)	USPAT	OR	ON	2002/11/22 16:58
S17	0	(simultaneous\$2 adj3 playback) and (activiat\$3 with signal)	USPAT	OR	ON	2002/11/22 17:00
S18	0	(simultaneous\$2 with playback) and (activiat\$3 with signal)	USPAT	OR	ON	2002/11/22 17:00
S19	0	(simultaneous\$2 with playback) and (activiat\$3 same signal)	USPAT	OR	ON	2002/11/22 17:03
S20	0	((simultaneous\$2 adj2 playback) with client) and (activat\$3 with signal)	USPAT	OR	ON	2002/11/22 17:03
S21	70	((simultaneous\$2 adj2 playback)) and (activat\$3 with signal)	USPAT	OR	ON	2002/11/22 17:04
S22	. 4	((simultaneous\$2 adj2 playback)) and (activat\$3 with signal) and (digital adj2 video) and object and queu\$4	USPAT	OR	ON	2002/11/25 11:07
S23	6	(multi\$cast or multi\$broadcast) and (simultaneously same play\$back) and (object) and (clock)	USPAT	OR	ON	2002/11/25 11:14
S24	0	(multi\$cast or multi\$broadcast) and (simultaneously same play\$back) and ((trigger\$3 or activat\$3) same clock)	USPAT	OR	ON	2002/11/25 11:15
S25	1	(multi\$cast or multi\$broadcast) and (play\$back) and ((trigger\$3 or activat\$3) same clock)	USPAT	OR	ON	2002/11/25 11:17
S26	42	(multi\$cast or multi\$broadcast) and (play\$back) and (creat\$3 with object)	USPAT	OR	ON	2002/11/25 11:26
S27	0	((client with play\$back) same simultaneous\$2) and (clock same (trigger\$3 or activat\$3))	USPAT	OR	ON	2002/11/25 11:29
S28	23	((client with play\$back) same simultaneous\$2)	USPAT	OR	ON	2002/11/25 11:31
S29	18	((client with play\$back) same simultaneous\$2) and clock\$3	USPAT	OR	ON	2002/11/25 11:36
S30	2	((client with play\$back)) and embed\$4 and ((trigger\$3 or activat\$3 or initiat\$3) same clock\$3)	USPAT	OR	ON	2002/11/25 11:37
S31	37	((client with play\$back)) and embed\$4 and ((trigger\$3 or activat\$3 or initiat\$3) same signal\$3)	USPAT	OR	ON	2002/11/25 11:39

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S32	18	(multiple same (client with play\$back)) and embed\$4 and ((trigger\$3 or activat\$3 or initiat\$3) same signal\$3)	USPAT	OR	ON	2002/11/25 11:42
S33	20	((multiple or plurality) same (client with play\$back)) and embed\$4 and ((trigger\$3 or activat\$3 or initiat\$3) same signal\$3)	USPAT	OR	ON	2002/11/25 11:43
S34	1	(((multiple or plurality) with client) same play\$back) and embed\$4 and ((trigger\$3 or activat\$3 or initiat\$3) same signal\$3) and clock\$3	USPAT	OR	ON	2002/11/25 11:44
S35	0	(((multiple or plurality) with client) same play\$back) and (activation adj signal)	USPAT	OR	ON	2002/11/25 11:45
S36	41	(((multiple or plurality) with client) same play\$back)	USPAT	OR	ON	2002/11/25 12:06
S37	50	(embed\$4 with stream\$3) and (activat\$4 with clock)	USPAT	OR .	ON	2002/11/25 12:07
S38	0	(embed\$4 with stream\$3) and (activat\$4 with clock) and ((multiple or plurality) with client)	USPAT	OR	ON	2002/11/25 12:08
S39	0	(embed\$4 with stream\$3) and (activat\$4 with clock) and ((multiple or plurality) same client)	USPAT	OR	ON	2002/11/25 12:08
S40	0	(embed\$4 with stream\$3) and (activat\$4 with clock) and (play\$back) and (client)	USPAT	OR	ON	2002/11/25 12:08
S41	27	(embed\$4 with stream\$3) and (activat\$4 with clock) and (play\$back)	USPAT	OR	ON	2002/11/25 12:10
S42	50	(embed\$4 with stream\$3) and (activat\$4 with clock)	USPAT	OR	ON	2002/11/25 12:21
S43	0	(byte\$code) and (activiation with clock)	USPAT	OR	ON	2002/11/25 12:22
S44	1	(byte\$code) and (play\$back) and (activat\$3 same signal)	USPAT	OR	ON	2002/11/25 12:24
S45	1	(byte\$code with stream\$3) and (activat\$3 same signal)	USPAT	OR	ON	2002/11/25 14:44
S46	52	((simultaneous\$2 with play\$back) same activat\$3)	USPAT	OR	ON	2002/11/25 14:49
S47	12	((simultaneous\$2 with play\$back) same (signal near5 activat\$3))	USPAT	OR	ON	2002/11/25 15:38
S48	1	("6321252").PN.	USPAT; USOCR	OR	OFF	2002/11/25 15:32

S49	1	((simultaneous\$2 with (play\$2 adj2 back)) same (signal near5 activat\$3))	USPAT	OR	ON	2002/11/25 15:39
S50	468	((simultaneous\$2 with (play\$2 adj2 back)))	USPAT	OR	ON	2002/11/25 15:43
S51	95	((simultaneous\$2 with (play\$2 adj2 back))) and (activat\$3 same signal)	USPAT	ÖR	ON	2002/11/25 15:44
S52	3	((simultaneous\$2 with (play\$3 adj2 back))) and (activat\$3 same signal) and object and client	USPAT	OR	ON	2002/11/25 15:45
S53	1	((simultaneous\$2 with (play\$3 adj2 back))) and (activat\$3 same signal) and object and ((multiple or plurality) with client)	USPAT	OR ·	ON	2002/11/25 15:51
S54	1	("6460086").PN.	USPAT; USOCR	OR .	OFF	2002/11/25 15:49
S55	44	(((play\$3 adj back) or play\$back) same ((multiple or plurality) with client))	USPAT	OR	ON	2002/11/25 15:56
S56	33	(((play\$3 adj back) or play\$back) same ((multiple or plurality) with client)) and simultaneous\$2	USPAT	OR	ON	2002/11/25 16:42
S57	4	(("6321252") or ("6389473") or ("6374402") or ("6460086")).PN.	USPAT; USOCR	OR	OFF	2002/11/26 09:14
S58	26	web adj portal	USPAT	OR	ON	2002/11/26 09:14
S59	4	(("5802294") or ("5920694") or ("6018762") or ("6161132")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/02 09:00
S60	1	("6018768").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/02 09:01
S61	1	("6769130").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/19 14:09
S62	1	("6654456").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 12:50
S63	2	(("6161132") or ("6659861")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 12:59
S64	1	("6591420").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:01
S65	1	("6609253").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:03

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S66	1	("6636888").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:06
S67	1	("6263505").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:08
S68	1	("6535909").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:11
S69	1	("6769130").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:12
S70	0	(09/489597).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:15
S71	1	("5825876").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:16
S72	1	("65299 4 9").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:18
S73	0	("6535909" "6263505" "6636888" "6591420" "6659861" "6161132"). pn. and threshold	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 13:22
S74	1	("6659861").PN.	US-PGPUB; USPAT; USOCR	OR .	OFF	2005/02/21 13:23
S75	1	("6161132").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:24
S76	6	(("6161132") or ("6659861") or ("6591420") or ("6636888") or ("6263505") or ("6535909")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 16:54
S77	1	("5944791").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:32
S78	1	("6591420").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 13:32
S79	1	("5994374").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 14:33
S80	1	("5991374").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 14:40
S81	1	("5808662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/21 14:41

S82	23	(simultaneous\$3 near4 play\$\$back) and (threshold near4 period)	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 14:45
S83	227	(simultaneous\$3 near4 play\$\$back) and (threshold)	US-PGPUB; USPAT; USOCR	OR	ON .	2005/02/21 14:46
S84	3	(simultaneous\$3 near4 play\$\$back) and (threshold) and (pre\$defined near4 period)	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 14:46
S85	14	(simultaneous\$3 near4 play\$\$back) and (threshold) and (queu\$3 near4 request\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 14:48
S86	24	(simultaneous\$3 near4 play\$\$back) and (period) and (queu\$3 near4 request\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 15:10
S87	102	(simultaneous\$3 near4 play\$\$back) and (period) and (synchroniz\$4 near4 time)	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 15:10
S88	23	(simultaneous\$3 near4 play\$\$back) and (period) and (synchroniz\$4 near4 time) and seek\$3 and forward\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/21 15:10
S89	1	("6769130").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/22 08:00
S90	1	("6291757").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/22 08:00
S91	2	(("6591420") or ("6124854")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 15:04
S92	1	"6104815".PN.	USPAT; USOCR	OR	ON	2005/05/12 14:58
S93	1	"6002852".PN.	USPAT; USOCR	OR	ON	2005/05/12 14:59
S94	1	"5825876".PN.	USPAT; USOCR	OR	ON	2005/05/12 14:59
S95	1	"5790423".PN.	USPAT; USOCR	OR	ON	2005/05/12 14:59
S96	1	"5737009".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:00
S97	1	"5710815".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:00
S98	1	"5708961".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:01
S99	1	"5708961".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:01

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S10 0	1	"5642418".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:02
S10 1	1	"5619247".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:04
S10 2	. 32	(synchroniz\$6 near4 object) and (simultaneous\$3 near4 play\$\$back)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:07
S10 3	198	(synchroniz\$6 near4 object) and (simultaneous\$3 near4 (client or apparatus))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:08
S10 4	13	(synchroniz\$6 near4 object) and (simultaneous\$3 near4 (client or apparatus)) and play\$\$back and activat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:09
S10 5	64	(object near5 play\$\$back) and (simultaneous\$3 near4 (client or apparatus))	US-PGPUB; USPAT; USOCR	OR .	ON	2005/05/12 15:18
S10 6	739	(simultaneous\$3 near4 play\$\$back) and (synchroniz\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:19
S10 7	50	(simultaneous\$3 near4 play\$\$back) and (synchroniz\$6 near4 event)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:40
S10 8	1	"5546324".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:33
S10 9	. 1	"5537141".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:33
S11 0	. 1	"5365579".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:34
S11 1	1	"5450140".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:35
S11 2	1	"5448315".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:35
S11 3	1	"5438372".PN.	USPAT; USOCR	OR .	ON	2005/05/12 15:35
S11 4	1	"5418622".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:35
S11 5	1	"5355450".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:35
S11 6	124	(simultaneous\$3 near4 (client or apparatus)) and (synchroniz\$6 near4 event)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:40
S11 7	45	(simultaneous\$3 near4 (client or apparatus)) and (synchroniz\$6 near4 event) and play\$\$back	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:43

S11 8	893	(simultaneous\$3 near4 (client or apparatus) and play\$\$back)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:43
S11 9	80	(simultaneous\$3 near4 (client or apparatus) and play\$\$back near5 synchroniz\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:47
S12 0	9	(simultaneous\$3 near4 (client or apparatus) near4 play\$\$back near5 synchroniz\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:25
S12	1	"20030101232".PN.	US-PGPUB	OR	ON	2005/05/12 15:49
S12 2	1	"20020073152".PN.	US-PGPUB	OR	ON	2005/05/12 15:49
S12 3	1	"6698020".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:49
S12 4	. 1	"6694309".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:51
S12 5	1	"6691126".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:51
S12 6	_. 1	"6691106".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:51
S12 7	1	"6609253".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:51
S12 8	1	"6543053".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:52
S12 9	1	"6535909".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:52
S13 0	1	"6529949".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:53
S13	1	"6510467".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:53
S13 2	1	"6505169".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:53
S13 3	1	"6499057".PN.	USPAT; USOCR	OR .	ON	2005/05/12 15:53
S13 4	1	"6460086".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:54
S13 5	1	"6453420".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:54
S13 6	1	"6449653".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:54
S13 7	1	"6415438".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:55
S13 8	1	"6389473".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:55

S13 9	1	"6389467".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:55
S14 0	1	"6341375".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:56
S14 1	1	"6331865".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:57
S14 2	1	"6321252".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:57
S14 3	1	"6301661".PN.	USPAT; USOCR	OR	ON	2005/05/12 15:57
S14 4	1	"6289165".PN.	USPAT; USOCR	OR ,	ON	2005/05/12 15:58
S14 5	1	"6263505".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:13
S14 6	1	"6263501".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:13
S14 7	1	"6246778".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:14
S14 8	1	"6243692".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:14
S14 9	1	"6240459".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:14
S15 0	1	"6239793".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:15
S15	1	"6233618".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:15
S15 2	1	"6230174".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:16
S15 3	1	"6229523".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:16
S15 4	1	"6226235".PN.	USPAT; USOCR	OR ,	ON	2005/05/12 16:16
S15 5	1	"6199048".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:16
S15 6	1	"6195693".PN.	USPAT; USOCR	OR-	ON	2005/05/12 16:16
S15 7	1	"6192340".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:16
S15 8	. 1	"6189032".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:16
S15 9	1	"6182222".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:17
S16 0	1	"6175842".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:17
S16 1	1	"6189032".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:17

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1	"6182222".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:17
1	"6175842".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:17
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1	"6157953".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:19
1	"6154844".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:19
1	"6154738".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:19
1	"6145006".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:19
1	"6141010".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:20
1	"6138150".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:20
1	"6134593".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:20
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1	"6125388".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:21
1	"6108002".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:21
1	"6101534".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:21
1	"6101180".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:21
1	"6097814".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:21
1	"6097291".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:21
1	"6081785".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:22
1	"6080207".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:22
1	"6076733".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:22
1	"6073124".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:22
1	"6064979".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:22
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S18 5	1	"6061057".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:22
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S19 6	1	"5950173".PN.	USPAT; USOCR	OR	ON	2005/05/12 16:25
S19 7	0	(simultaneous\$3 same play\$\$back same synchroniz\$7).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:26
S19 8	6	(simultaneous\$3 same play\$\$back).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:27
S19 9	12	(plurality same play\$\$back).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:33
S20 0	86	((client or apparatus) near4 play\$\$back) and (synchroniz\$7 near5 simultaneous\$3)	US-PGPUB; USPAT; USOCR	OR	ON ,	2005/05/12 16:34
S20 1	56	((client or apparatus) near4 play\$\$back) and (synchroniz\$7 near5 simultaneous\$3) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:37
S20 2	92	(simultaneous\$3 near4 (client or apparatus or user or workstation)) and (play\$\$back near4 event)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:38
S20 3	32	(simultaneous\$3 near4 (client or apparatus or user or workstation)) and (play\$\$back near4 event) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:10

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S20 4	47	(synchroniz\$7 near4 (client or apparatus or user or workstation)) and (play\$\$back near4 event) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:27
S20 5	57	(synchroniz\$7 near4 (client or apparatus or user or workstation)) and (play\$\$back near4 simultaneous\$3) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:40
S20 6	275	(simultaneous\$3 near4 (display\$3)) and (play\$\$back near4 (client or apparatus or user or workstation)) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:41
S20 7		(simultaneous\$3 near4 (display\$3)) and (play\$\$back near4 (client or apparatus or user or workstation)) and (@ad<"20000120") and (synchroniz\$7 near5 object)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:44
S20 8	43	(simultaneous\$3 near4 (display\$3)) and (play\$\$back near4 (object)) and (@ad<"20000120") and (synchroniz\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:46
S20 9	11	(concurrent\$3 near4 (display\$3)) and (play\$\$back near4 (object)) and (@ad<"20000120") and (synchroniz\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:49
S21 0	65	(concurrent\$3 near4 (play\$\$back)) and (@ad<"20000120") and (synchroniz\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:49
S21 1	45	(concurrent\$3 near4 (play\$\$back)) and (@ad<"20000120") and (synchroniz\$7) and simultaneous\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:53
S21 2	375	(simultaneous\$3 near4 (play\$\$back)) and (@ad<"20000120") and (synchroniz\$7) and simultaneous\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 17:53
S21 3	13	(simultaneous\$3 near4 (play\$\$back)) and (@ad<"20000120") and (synchroniz\$7 near4 event)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:16
S21 4	93	(simultaneous\$3 near4 (play\$\$back) near4 (client or user or workstation))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:17

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S21 5	34	(simultaneous\$3 near4 (play\$\$back) near4 (client or user or workstation)) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ÓΝ	2005/05/12 18:20
S21 6	81	(simultaneous\$3 near4 (play\$\$back)) and ((multiple or plurality) near4 (client or user or workstation)) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:25
S21 7	202	(simultaneous\$3 near4 (play\$\$back)) and (broad\$cast\$3) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:25
S21 8	123	(simultaneous\$3 near4 (play\$\$back)) and (broad\$cast\$3) and synchroniz\$7 and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:26
S21 9	99	(simultaneous\$3 near4 (play\$\$back)) and (broad\$cast\$3) and synchroniz\$7 and remain\$3 and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:31
S22 0	28	(play\$\$back near4 (plurality near4 (client or user or workstation))) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:37
S22 1	10	(re\$\$play\$3 near4 (plurality near4 (client or user or workstation))) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:37
S22 2	107	(re\$\$play\$3 near4 simultaneous\$3) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:38
S22 3	8	(re\$\$play\$3 near4 simultaneous\$3) and (activat\$3 near3 signal\$3) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:39
S22 4	13	(re\$\$play\$3 near4 simultaneous\$3) and ((multiple or plurality) near4 (client or user or workstation)) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:42
S22 5	719	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:50
S22 6	5	(simultaneous\$3 near4 play\$\$back near5 event) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:43
S22 7	18	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and (synchroniz\$7 near4 object)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:47

S22 8	10	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and (object near4 event)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:48
S22 9	24	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "709"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR .	ON	2005/05/12 18:49
S23 0	570	(simultaneous\$3 adj5 play\$\$back) and (@ad<"20000120")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 18:49
S23 1	22	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "345"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR	ON .	2005/05/12 19:00
S23 2	. 1	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and (remain\$3 near4 client)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:01
S23 3	0	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and (remain\$3 near4 workstation)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:01
S23 4	19	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and (remain\$3 near4 user)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:02
S23 5	29	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and (remain\$3 near4 apparatus)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:05
S23 6	79	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "348"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:10
S23 7	30	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "725"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:14
S23 8	31	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "379"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:17
S23 9	0	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "717"/\$. ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 19:17

S24 0	11	(simultaneous\$3 near4 play\$\$back) and (@ad<"20000120") and "370"/\$.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/13 07:33
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1 Playing experience: From remote media immersion to Distributed Immersive Performance



A. A. Sawchuk, E. Chew, R. Zimmermann, C. Papadopoulos, C. Kyriakakis November 2003 Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence

Full text available: pdf(378.71 KB) Additional Information: full citation, abstract, references, index terms

We present the architecture, technology and experimental applications of a real-time, multisite, interactive and collaborative environment called Distributed Immersive Performance (DIP). The objective of DIP is to develop the technology for live, interactive musical performances in which the participants - subsets of musicians, the conductor and the audience - are in different physical locations and are interconnected by very high fidelity multichannel audio and video links. DIP is a specific r ...

Keywords: information interfaces and presentation, music performance, real-time interaction, remote collaboration

2 A synchronization model for recorded presentations and its relevance for information retrieval



W. Hürst, R. Müller

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 1)

Full text available: pdf(1.84 MB)

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In order to improve the acceptance of recorded presentations, we introduce a new open document type covering a wide range of different media classes typically appearing in this scenario. Instances of this document type can be replayed using our time-based synchronization model. Random access in combination with the realized stream/medialayered synchronization mechanism results in essential features such as Random Visible Scrolling and Unrestricted Cross-Referencing ...

Turning the postal system into a generic digital communication mechanism Randolph Y. Wang, Sumeet Sobti, Nitin Garg, Elisha Ziskind, Junwen Lai, Arvind Krishnamurthy August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4

Additional Information: full citation, abstract, references, index terms Full text available: pdf(331.29 KB)

The phenomenon that rural residents and people with low incomes lag behind in Internet access is known as the "digital divide." This problem is particularly acute in developing countries, where most of the world's population lives. Bridging this digital divide, especially by attempting to increase the accessibility of broadband connectivity, can be challenging. The improvement of wide-area connectivity is constrained by factors such as how quickly we can dig ditches to bury fibers in the ground; ...

Keywords: network architecture, postal network, storage devices

4 Steerable media: interactive television via video synthesis

Chris Marrin, Rob Myers, Jim Kent, Peter Broadwell

February 2001 Proceedings of the sixth international conference on 3D Web technology

Full text available: pdf(306.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: WWW applications, animation systems, applications, graphics systems, multimedia, rendering systems, video

⁵ Cache performance for multimedia applications

Nathan T. Slingerland, Alan Jay Smith

June 2001 Proceedings of the 15th international conference on Supercomputing

Additional Information: full citation, abstract, references, citings, index terms Full text available: pdf(642.63 KB)

The caching behavior of multimedia applications has been described as having high instruction reference locality within small loops, very large working sets, and poor data cache performance due to non-locality of data references. Despite this, there is no published research deriving or measuring these qualities. Utilizing the previously developed Berkeley Multimedia Workload, we present the results of execution driven cache simulations with the goal of aiding future media processing architect ...

Keywords: CPU caches, cache, mulitmedia, simulation, trace driven simulation

⁶ <u>Microarchitectures: The energy efficiency of CMP vs. SMT for multimedia workloads</u> Ruchira Sasanka, Sarita V. Adve, Yen-Kuang Chen, Eric Debes June 2004 Proceedings of the 18th annual international conference on Supercomputing

Full text available: pdf(210.92 KB) Additional Information: full citation, abstract, references, index terms

This paper compares the energy efficiency of chip multiprocessing (CMP) and simultaneous multithreading (SMT) on modern out-of-order processors for the increasingly important multimedia applications. Since performance is an important metric for real-time multimedia applications, we compare configurations at equal performance. We perform this comparison for a large number of performance points derived using different processor architectures and frequencies/voltages. We find that for the des ...

Keywords: CMP, SMT, energy efficiency, multimedia

7 (Special session) embedded tutorial + reguler session: embedded system applications: Rate analysis for streaming applications with on-chip buffer constraints Alexander Maxiaquine, Simon Künzli, Samarjit Chakraborty, Lothar Thiele



January 2004

Full text available: pdf(445.68 KB)

Additional Information: full citation, abstract, references, citings

While mapping a streaming (such as multimedia or network packet processing) application onto a specified architecture, an important issue is to determine the input stream rates that can be supported by the architecture for any given mapping. This is subject to typical constraints such as on-chip buffers should not overflow, and specified playout buffers (which feed audio or video devices) should not underflow, so that the quality of the audio/video output is maintained. The main difficult ...

8 Video retrieval: The Family Video Archive: an annotation and browsing environment for home movies



Gregory D. Abowd, Matthias Gauger, Andreas Lachenmann

November 2003 Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval

Full text available: pdf(447.13 KB) Additional Information: full citation, abstract, references, citings, index terms

We present the Family Video Archive as a tool to give consumers the ability to annotate and browse large collections of informal family movies. The informal nature of home movies makes it difficult to use fully-automated techniques for scene detection and annotation. Our system explores the symbiosis between automated and manual techniques for annotation. We also explore the use of a zooming interaction paradigm for browsing and filtering large collections of video scenes.

Keywords: home movies, video annotation, zooming user interfaces

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